TRIAD FAMILY NETWORK, INC.
FCC FORM 340 SECTION II QUESTION IV

TRIAD FAMILY NETWORK, INC.
FCC FORM 340, SECTION III, QUESTION III
FEBRUARY, 1991

**EXHIBIT V**
Letter from Financial Institution

**Southern National**

February 4, 1991

Ms. Donna B. Searcy
Secretary
Federal Communications Commission
1919 M Street, N.W.
Washington, D. C. 20554

RE: Philip T. Watson

Dear Ms. Searcy:

Mr. Philip Watson has asked me to write this letter to you in connection with Triad Family Network, Inc.'s application for an FM station.

Southern National Bank provided the construction loan funds for Mr. Watson to build a new radio station and office building for his accounting practice on Trade Street in Winston-Salem. The first floor of the new building was built for the radio station and is intended to house both AM and FM facilities. (Mr. Watson has planned for this addition for quite awhile).

As with any customer in Mr. Watson's good standing, Southern National Bank will entertain any additional financing requests, if necessary, to facilitate this expansion. This is not to be interpreted as a loan commitment, but as a willingness to discuss future loan opportunities should the need arise. Mr. Watson has paid all loans as agreed in the past and has handled all deposit accounts - personal and business - in an excellent manner.

My examination of the radio station's financial statement at the time of the construction loan revealed no problems. It appears to me that Mr. Watson has made appropriate plans to secure any additional funds needed from outside sources, other than the bank.

Should you need any further information concerning Mr. Watson, please do not hesitate to contact me.

Sincerely,

Mark E. Nichols
Vice President

MEN:mm

TRIAD FAMILY NETWORK, INC.
FCC FORM 340, SECTION IV , QUESTION I
FEBRUARY, 1991

EXHIBIT NO VI

TRIAD FAMILY NETWORK intends to provide programming which meets the requirements of 47 CFR 73.503(A) inasmuch as it will advance a bona-fide educational program. Such programming will consist of a judicious balance of the following elements:

a) Medical and other health-related issues including but not limited to educational programming particularly directed to

TRIAD FAMILY NETWORK, INC.
FCC FORM 340, SECTION IV, QUESTION I (continued)

TRIAD FAMILY NETWORK, INC.
FCC FORM 340, SECTION IV, QUESTION I (continued)
FEBRUARY, 1991

PROPOSED PROGRAMMING

Insight For Living with Chuck Swindoll - Taped, syndicated program presenting exegitical studies of Scripture by a nationally noted Bible expositor. One half hour daily.

Your Money In Changing Times - Taped, syndicated program by Dr. Larry Burkett dealing with insights for money management, investing, etc... Five minutes daily.

Joni and Friends - Taped, syndicated program, produced by Joni Eareckson Tada, nationally-known paraplegic who has spearheaded significant public recognition and involvement in behalf of the handicapped. Five minute daily feature.

Focus on The Family - Taped, syndicated program with clinical psychologist, Dr. James Dobson. Discussion and interview program addressing and applying psychological principles to personal relationships and family-related issues. One half hour daily.

In Touch with Dr. Charles Stanley - Taped, syndicated Bible teaching program. One half hour daily.

Living Way - Taped, syndicated Bible teaching by Dr. Jack Hayford. One half hour daily.

Word For Today - Taped, syndicated Bible teaching by Chuck Smith.

One half hour daily.

Key Life - Taped, syndicated Bible teaching by Dr. Steve Brown.

One quarter hour daily.

The Urban Alternative - Taped, syndicated Bible teaching by Dr.

[redacted]

McDowell, author and apologist. Deals with issues relevant to youth, giving Biblical perspective. One half hour weekly.

Revival Time - Taped, syndicated Bible teaching by Dan Betzer. One half hour weekly.

Hour of Decision - Taped, syndicated Bible teaching by nationally known evangelist, Dr. Billy Graham.

Words For Women - Taped, syndicated teaching directed to women by Dale Hanson Bourke.

## DAILY HEALTH FEATURES

The Best of Health - Twenty-five minutes.

AMA Health - Five minutes.

The Rapha Answer - Five minutes.

Health Journal - Five minutes.

Health To You - One & Two minutes.

Vital Signs - One & Two minutes

TRIAD FAMILY NETWORK, INC.
FCC FORM 340, SECTION IV, QUESTION I (continued)
FEBRUARY, 1991

Family News In Focus - Commentary on family-related issues.

Counselling. Five minutes.

APPLICATION FOR NEW FM STATION

TRIAD FAMILY NETWORK, INCORPORATED

Seeks: Channel 207C3 (89.3 mc) , 6.92 kw

ENGINEERING SECTION V-B, FCC FORM 340

Prepared by:

York David Anthony
Justine Hope Lambert

Lambert & Anthony
2613 Craig Avenue
Concord, NC 28027

TRIAD FAMILY NETWORK, INCORPORATED

APPLICATION FOR CHANNEL 207C3, 89.3 mc, 6.92 kw ERP

SECTION V-B, FM ENGINEERING DATA, FORM 340

TABLE OF CONTENTS

| Section V-B - FM BROADCAST ENGINEERING DATA | FOR COMMISSION USE ONLY<br>File No. _____<br>ASB Referral Date _____<br>Referred by _____ |
|---|---|

Name of Applicant

TRIAD FAMILY NETWORK, INCORPORATED

| Call letters *(if issued)* | Is this application being filed in response to a window? ☐ Yes ■ No |
|---|---|
| ---------- | If Yes, specify closing date: _____ |

Purpose of Application: *(check appropriate box(es))*

- ■ Construct a new (main) facility
- ☐ Construct a new auxiliary facility
- ☐ Modify existing construction permit for main facility
- ☐ Modify existing construction permit for auxiliary facility
- ☐ Modify licensed main facility
- ☐ Modify licensed auxiliary facility

If purpose is to modify, indicate below the nature of change(s) and specify the file number(s) of the authorizations affected.

- ☐ Antenna supporting-structure height
- ☐ Effective radiated power
- ☐ Antenna height above average terrain
- ☐ Frequency
- ☐ Antenna location
- ☐ Class
- ☐ Main Studio location
- ☐ Other *(Summarize briefly)*

File Number(s) ----------

1. Allocation:

| Channel No. | Principal community to be served: | | |
|---|---|---|---|
| | City | County | State |
| 207C3 | WINSTON-SALEM | FORSYTH | NC |

Class *(check only one box below)*

☐ A ☐ B1 ☐ B ■ C3

☐ C2 ☐ C1 ☐ C ☐ D

2. Exact location of antenna.

(a) Specify address, city, county and state. If no address, specify distance and bearing relative to the nearest town or landmark.

1249 Trade Street, Winston-Salem, North Carolina 27101

(b) Geographical coordinates (to nearest second). If mounted on element of an AM array, specify coordinates of center of array. Otherwise, specify tower location. Specify South Latitude or East Longitude where applicable; otherwise, North Latitude or West Longitude will be presumed.

| Latitude | 36 ° | 06 ' | 33 " | Longitude | 80 ° | 14 ' | 44 " |
|---|---|---|---|---|---|---|---|

*Note: See engineering report concering WBFJ coordinates

3. Is the supporting structure the same as that of another station(s) or proposed in another pending application(s)? ■ Yes ☐ No

If Yes, give call letter(s) or file number(s) or both. WBFJ, WPIP

If proposal involves a change in height of an existing structure, specify existing height above ground level including antenna, all other appurtenances, and lighting, if any.

NO CHANGE IN EXISTING STRUCTURE

## SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 2)

4. Does the application propose to correct previous site coordinates? ☐ Yes ■ No
If Yes, list old coordinates.

| Latitude ° ' " | Longitude ° ' " |
|---|---|
| | |

5. Has the FAA been notified of the proposed construction? ■ Yes ☐ No
If Yes, give date and office where notice was filed and attach as an Exhibit a copy of FAA determination, if available.

Exhibit No. A

Date 2/01/91 Office where filed East Point, Georgia

6. List all landing areas within 8 km of antenna site. Specify distance and bearing from structure to nearest point of the nearest runway.

| | Landing Area | Distance (km) | Bearing (degrees True) |
|---|---|---|---|
| (a) | Smith-Reynolds | 3.3 km | 37.2° T |
| (b) | | | |

7. (a) Elevation: *(to the nearest meter)*

(1) of site above mean sea level; 263 meters

(2) of the top of supporting structure above ground (including antenna, all other appurtenances, and lighting, if any); and 46 meters

(3) of the top of supporting structure above mean sea level [(aX1) + (aX2)] 309 meters

(b) Height of radiation center: *(to the nearest meter)* H = Horizontal; V = Vertical

(1) above ground 38 meters (H)
38 meters (V)

(2) above mean sea level [(aX1) + (bX1)] 301 meters (H)
301 meters (V)

(3) above average terrain 41 meters (H)
41 meters (V)

8. Attach as an Exhibit sketch(es) of the supporting structure, labelling all elevations required in Question 7 above, except item 7(bX3). If mounted on an AM directional-array element, specify heights and orientations of all array towers, as well as location of FM radiator.

Exhibit No. B

9. Effective Radiated Power:
(a) ERP in the horizontal plane 6.92 kw (H*) 6.92 kw (V*)

(b) Is beam tilt proposed? ☐ Yes ■ No

If Yes, specify maximum ERP in the plane of the tilted beam, and attach as an Exhibit a vertical elevational plot of radiated field.

Exhibit No. -----

_____ kw (H*) _____ kw (V*)

*Polarization

10. Is a directional antenna proposed? ■ Yes ☐ No

If Yes, attach as an Exhibit a statement with all data specified in 47 C.F.R. Section 73.316, including plot(s) and tabulations of horizontally and vertically polarized radiated components in terms of relative field. Exhibit No. C

11. Will the main studio be located within the 70 dBu or 3.16 mV/m contour? ■ Yes ☐ No

If No, attach as an Exhibit justification pursuant to 47 C.F.R. Section 73.1125. Exhibit No. ~~Exhibit No.~~

12. Are there: (a) within 60 meters of the proposed antenna, any proposed or authorized FM or TV transmitters, or any nonbroadcast *(except citizens band or amateur)* radio stations; or (b) within the blanketing contour, any established commercial or government receiving stations, cable head-end facilities, or populated areas; or (c) within ten (10) kilometers of the proposed antenna, any proposed or authorized FM or TV transmitters which may produce receiver-induced intermodulation interference? ☐ Yes ☐ No

If Yes, attach as an Exhibit a description of any expected, undesired effects of operations and remedial steps to be pursued if necessary, and a statement accepting full responsibility for the elimination of any objectionable interference (including that caused by receiver-induced or other types of modulation) to facilities in existence or authorized or to radio receivers in use prior to grant of this application. *(See 47 C.F.R. Sections 73.315(b), 73.316(d) and 73.318.)* Exhibit No. D

13. Attach as an Exhibit a 7.5 minute series U.S. Geological Survey topographic quadrangle map that shows clearly, legibly, and accurately, the location of the proposed transmitting antenna. This map must comply with the requirements set forth in Instruction D for Section V. Further, the map must clearly and legibly display the original printed contour lines and data as well as latitude and longitude markings, and must bear a scale of distance in kilometers. Exhibit No. E

14. Attach as an Exhibit *(name the source)* a map which shows clearly, legibly, and accurately, and with the original printed latitude and longitude markings and a scale of distance in kilometers: Exhibit No. F

(a) the proposed transmitter location, and the radials along with profile graphs have been prepared;

(b) the 1 mV/m predicted contour and, for noncommercial educational applicants applying on a commercial channel, the 3.16 mV/m contour; and

(c) the legal boundaries of the principal community to be served.

15. Specify area in square kilometers (1 sq. mi. = 2.59 sq. km.) and population (latest census) within the predicted 1 mV/m contour.

Area 758.6 sq km (292.9 sq mi) sq. km. Population 241 570 (1990 prelim)

16. Attach as an Exhibit a map *(Sectional Aeronautical charts where obtainable)* showing the present and proposed 1 mV/m (60 dbu) contours. Exhibit No. F

Enter the following from Exhibit above: Gain Area 292.9 sq. mi. (758.6 sq km)
Loss Area 0.0 sq. mi.

Percent change (gain area plus loss area as percentage of present area) 100 % %.
If 50% or more this constitutes a major change. Indicate in question 2(c), Section I, accordingly.

20. Is the proposed antenna location within 320 kilometers of the common border between the United States and Canada? ☐ Yes ■ No

If Yes, attach as an Exhibit a showing of compliance with all provisions of the Working Agreement for Allocation of FM Broadcasting Stations on Channels 201-300 under The Canada-United States FM Agreement of 1947. Exhibit No.

21. If the proposed operation is for a channel in the range from channel 201 through 220 (88.1 through 91.9 MHz), or if this proposed operation is for a class D station in the range from Channel 221 through 300 (92.1 through 107.9 MHz), attach as an Exhibit a complete allocation study to establish the lack of prohibited overlap of contours with other U.S. stations. The allocation study should include the following: Exhibit No. G

(a) The normally protected interference-free and the interfering contours for the proposed operation along all azimuths.
(b) Complete normally protected interference-free contours of all other proposals and existing stations to which objectionable interference would be caused.
(c) Interfering contours over pertinent arcs of all other proposals and existing stations from which objectionable interference would be received.
(d) Normally protected and interfering contours over pertinent arcs, of all other proposals and existing

**SECTION V-B – FM BROADCAST ENGINEERING DATA (Page 6)**

(e) If authorization pursuant to 47 C.F.R. Section 73.215 is requested, attach as an Exhibit a complete engineering study to establish the lack of prohibited overlap of contours involving affected stations. The engineering study must include the following:

Exhibit No. [redacted]

(1) Protected and interfering contours, in all directions (360°), for the proposed operation.
(2) Protected and interfering contours, over pertinent arcs, of all short-spaced assignments, applications and allotments, including a plot showing each transmitter location, with identifying call letters or file numbers, and indication of whether facility is operating or proposed. For vacant allotments, use the reference coordinates as transmitter location.
(3) When necessary to show more detail, an additional allocation study utilizing a map with a larger scale to clearly show prohibited overlap will not occur.
(4) A scale of kilometers and properly labeled longitude and latitude lines, shown across the entire exhibit(s). Sufficient lines should be shown so that the location of the sites may be verified.
(5) The official title(s) of the map(s) used in the exhibits(s).

24. Is the proposed station for a channel in the range from Channel 201 to 220 (88.1 through 91.9 MHz) and the proposed antenna location within the distance to an affected TV Channel 6 station(s) as defined in 47 C.F.R. Section 73.525?

■ Yes ☐ No

If Yes, attach as an Exhibit either a TV Channel 6 agreement letter dated and signed by both parties or a map and an engineering statement with calculations demonstrating compliance with 47 C.F.R. Section 73.525 for each affected TV Channel 6 station.

Exhibit No. G

25. Is the proposed station for a channel in the range from Channel 221 to 300 (92.1-107.9 MHz)?

☐ Yes ■ No

If Yes, attach as an Exhibit information required in 1/. *(Except for Class D (secondary) proposals.)*

Exhibit No. -----

26. Environmental Statement *(See 47 C.F.R. Section 1.1301 et seq.)*

Would a Commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact?

☐ Yes ■ No

If you answer Yes, submit as an Exhibit an Environmental Assessment required by Section 1.1311.

Exhibit No. H

If No, explain briefly why not. Catagorically excluded. However, see Exhibit H for blanketing and biohazard statement.

**CERTIFICATION**

I certify that I have prepared this Section of this application on behalf of the applicant, and that after such preparation, I have examined the foregoing and found it to be accurate and true to the best of my knowledge and belief.

| Name *(Typed or Printed)* | Relationship to Applicant *(e.g., Consulting Engineer)* |
|---|---|
| York David Anthony | Consulting Engineer |
| Signature | Address *(Include ZIP Code)* 2613 Craig Avenue Concord, North Carolina 28027 |
| Date 2 February 1991 | Telephone No. *(Include Area Code)* ( 704 ) 597 8317 |

ENGINEERING STATEMENT

TRIAD FAMILY NETWORK, INCORPORATED

At the request, and on the behalf of Triad Family Network, Incorporated, I have been asked to prepare the engineering portion of FCC Form 340 in support of its application for channel 207C3 at Winston-Salem, North Carolina. My qualifications as an electrical engineer are a matter of public record with the Commission.

This application is basically straightforward as there are no novel questions of law or engineering involved. TFN proposes to utilise a directive antenna to provide the required protections to adjacent channel station WVTF in Roanoke, Virginia. All other allotments and operating stations easily clear the proposed facility as can be seen in the Exhibits.

One minor problem concerns the site coordinates. Having computed them countless times, and had them accepted for filing by the FM branch at least 25 times, I cannot understand how WBFJ (whose tower we are going to obtain a lease for TFN from) comes up with a longitude of 80-14-47 as opposed to our value of 80-14-44. The original WBFJ engineering would place its tower in the curb of Trade Street! We are submitting the correct tower position and the correct site elevation (confirmed by a surveyor at the original WBFJ CP application, then WPGD) in our Exhibits. WBFJ may have to have its site coordinates corrected at some point, as the methods in use in antiquity may have led to less than accurate results. We are using the same method the FCC uses with an original 7.5 minute, NAD-27 map of the appropriate quadrangle (Winston-Salem East).

We have asked for FAA concurrence on this move (the tower is not lighted) and for their concurrence on the effects the proposed facility would have electrically on navigation. On receiving a response we will file immediately an amendment containing their determination.

It is believed that the grant of the TFN proposal would provide Winston-Salem with an additional outlet of local expression, and that the grant can be made without causing or receiving prohibited interference, and should the other portions of this application be in order, that a grant of the TFN application would be in the public interest, convenience, and necessity.

It is believed that this application is complete and correct in all respects. Should there be an inquiry, please contact the undersigned.

Respectfully submitted,

York David Anthony
Consulting Engineer
TRIAD FAMILY NETWORK, INCORPORATED

This, the second day February, 1991

EXHIBIT A
TRIAD FAMILY NETWORK, INC

2613 Craig Avenue
Concord, North Carolina 28027
1 February, 1991

Mr. Kenneth Patterson
Federal Aviation Administration
Box 20636
Atlanta, Georgia 30320

Re: NEW FM, Winston-Salem, NC
Triad Family Network, Incorporated
Request for In-Band Spurious Emissions Study

Dear Mr. Patterson

I am writing this letter today to inform you of my client's intention to file for a new FM broadcast station using an existing tower. The existing tower is that of WBFJ, which has long ago since been approved for use at 150' AGL without obstruction lighting.

We do not intend to raise the height of this structure, however, we do intend to mount a 4-bay FM transmitting antenna operating on 89.3 mc (channel 207 C3) with 6.92 kw, horizontal and vertical polarisation.

The coordinates in the FAA and FCC database are 36-06-33 and 80-14-47. On further investigation, we found that the original application for WBFJ's tower were prepared in error (and in antiquity) and that it is actually located at 36-06-33 and 80-14-44. If I plot the licensed coordinates for WBFJ (see enclosed copy of their license) I consistently wind up with the tower being located on the curb of Trade Street. This is clearly not the case.

The site elevation is 864 feet after the original excavation for the AM ground system. Otherwise, the dimsensions of the WBFJ tower (150 feet) remain unchanged.

If you could pass on the merits of correcting the original engineering, and would check to see if Triad Family Networks's FM would not cause any spurious emissions problems, I'd be most appreciative. Thank you for your time and effort.

Very truly yours,

York David Anthony
Consulting Engineer
TRIAD FAMILY NETWORK, INC.

Enclosures

TRIAD FAMILY NETWORK, INC
EXHIBIT A

License of proposed site
File No.: BR780728VX lessor

Call Sign: W B F J

...nuary 1977

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

# STANDARD BROADCAST STATION LICENSE

Subject to the provisions of the Communications Act of 1934, subsequent Acts, and Treaties, and Commission Rules made thereunder, and further subject to conditions set forth in this license, the LICENSEE

QUALITY MEDIA CORPORATION

is hereby authorized to use and operate the radio transmitting apparatus hereinafter described for the purpose of broadcasting for the term ending 3 a.m. Local Time December 1, 1981

The licensee shall use and operate said apparatus only in accordance with the following terms:

1. On a frequency of 1550 kHz.
2. With nominal power of — watts nighttime and 1 kilo watts daytime,
   with antenna input power of — watts — directional [ — — — current — — amperes
   antenna nighttime ..... [ — — — resistance — — ohms,
   and antenna input power of 1 kilo watts non-directional [ Antenna current 4.23 amperes
   antenna daytime ..... [ Antenna resistance 55.9 ohms
3. Hours of operation: Daytime as follows:
   Jan. 7:30am to 5:30pm; Feb. 7:15am to 6:00pm;
   Mar. 6:30am to 6:30pm; Apr. 5:45am to 7:00pm;
   May 5:15am to 7:15pm; June 5:00am to 7:45pm;
   July 5:15am to 7:45pm; Aug. 5:45am to 7:15pm;
   Sep. 6:00am to 6:30pm; Oct. 6:30am to 5:45pm;
   Nov. 7:00am to 5:15pm; Dec. 7:30am to 5:15pm;
   Eastern Standard Time (Non-Advanced).
4. With the station located at: Winston-Salem, North Carolina
5. With the main studio located at: Gallows Bldg., 954 Peters Creek Parkway
   Winston-Salem, North Carolina
6. Remote control point: Gallows Bldg., 954 Peters Creek Parkway
   Winston-Salem, North Carolina
7. Transmitter location:
   1209 Trade Street
   Off Trade St., between
   Twelfth & One Half & Twelfth St.
   Winston-Salem, North Carolina
   North Latitude: 36° 06' 33"
   West Longitude: 80° 14' 47"
8. Obstruction marking specifications in accordance with the following paragraphs of FCC Form 715: —
9. Transmitter(s): TYPE ACCEPTED
10. ~~Conditions~~: Antenna: 150' overall height, self-supporting, tapered, shunt excited (folded unipole). Theoretical efficiency: 188 mV/m/kw. Ground system consists of 120-60' to 160' equally spaced buried copper radials plus a 24' x 24' copper ground screen at base of tower.

The Commission reserves the right during said license period of terminating this license or making effective any changes or modification of this license which may be necessary to comply with any decision of the Commission rendered as a result of any hearing held under the rules of the Commission prior to the commencement of this license period or any decision rendered as a result of any such hearing which has been designated but not held, prior to the commencement of this license period.

This license is issued on the licensee's representation that the statements contained in licensee's application are true and that the undertakings therein contained so far as they are consistent herewith, will be carried out in good faith. The licensee shall, during the term of this license, render such broadcasting service as will serve public interest, convenience, or necessity to the full extent of the privileges herein conferred.

This license shall not vest in the licensee any right to operate the station nor any right in the use of the frequency designated in the license beyond the term hereof, nor in any other manner than authorized herein. Neither the license nor the right granted hereunder shall be assigned or otherwise transferred in violation of the Communications Act of 1934. This license is subject to the right of use or control by the Government of the United States conferred by Section 606 of the Communications Act of 1934.

1/ This license consists of this page and — pages. —

Dated March 13, 1979
time

FEDERAL COMMUNICATIONS COMMISSION

EXHIBIT A
TRIAD FAMILY NETWORK, INC.
MAP SENT TO FAA

TRIAD FAMILY NETWORK, INC.
Location of WBFJ Tower (share)

THIS IS NOT THE OFFICIAL SITE LOCATION MAP CALLED FOR IN EXHIBIT E. THIS IS A PHOTOCOPY

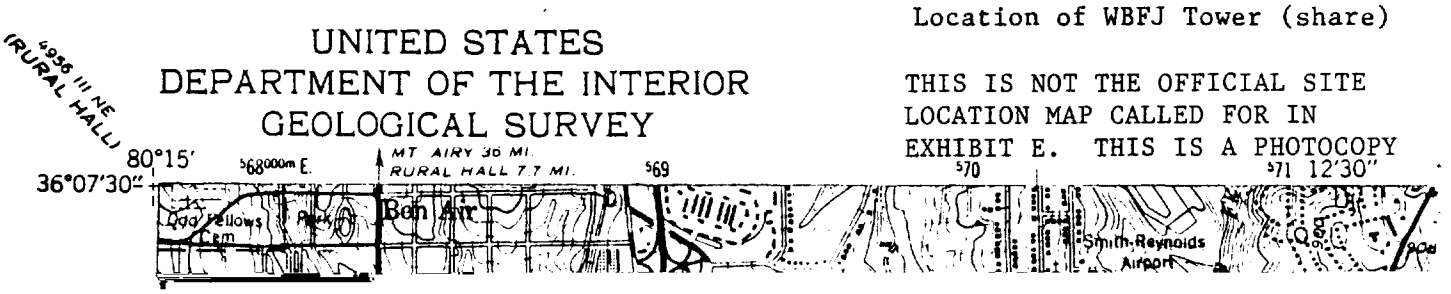
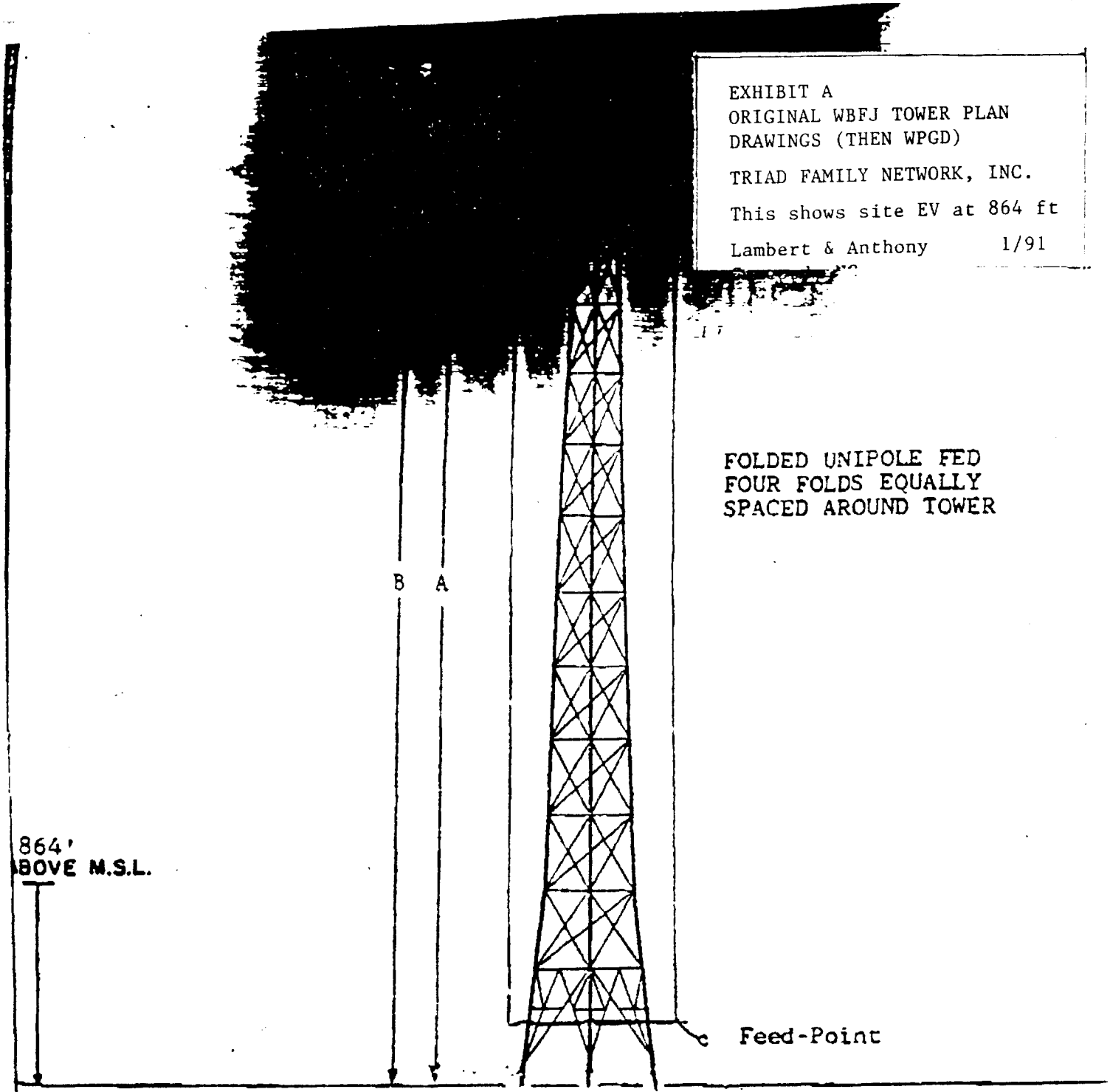


EXHIBIT A
ORIGINAL WBFJ TOWER PLAN
DRAWINGS (THEN WPGD)

TRIAD FAMILY NETWORK, INC.

This shows site EV at 864 ft

Lambert & Anthony 1/91




| ITEM | DESCRIPTION | HEIGHT IN FEET |
|---|---|---|
| A | TOWER | 150 |
| B | OVERALL HEIGHT ABOVE GROUND | 150 |

RADIO STATION WPGD

JOHN H. MULLANEY

CONSULTING
RADIO ENGINEER

FIGURE 3

EXHIBIT B
TRIAD FAMILY NETWORK, INC.

TOWER PLAN SKETCH

Lambert & Anthony
Concord, North Carolina 1/91

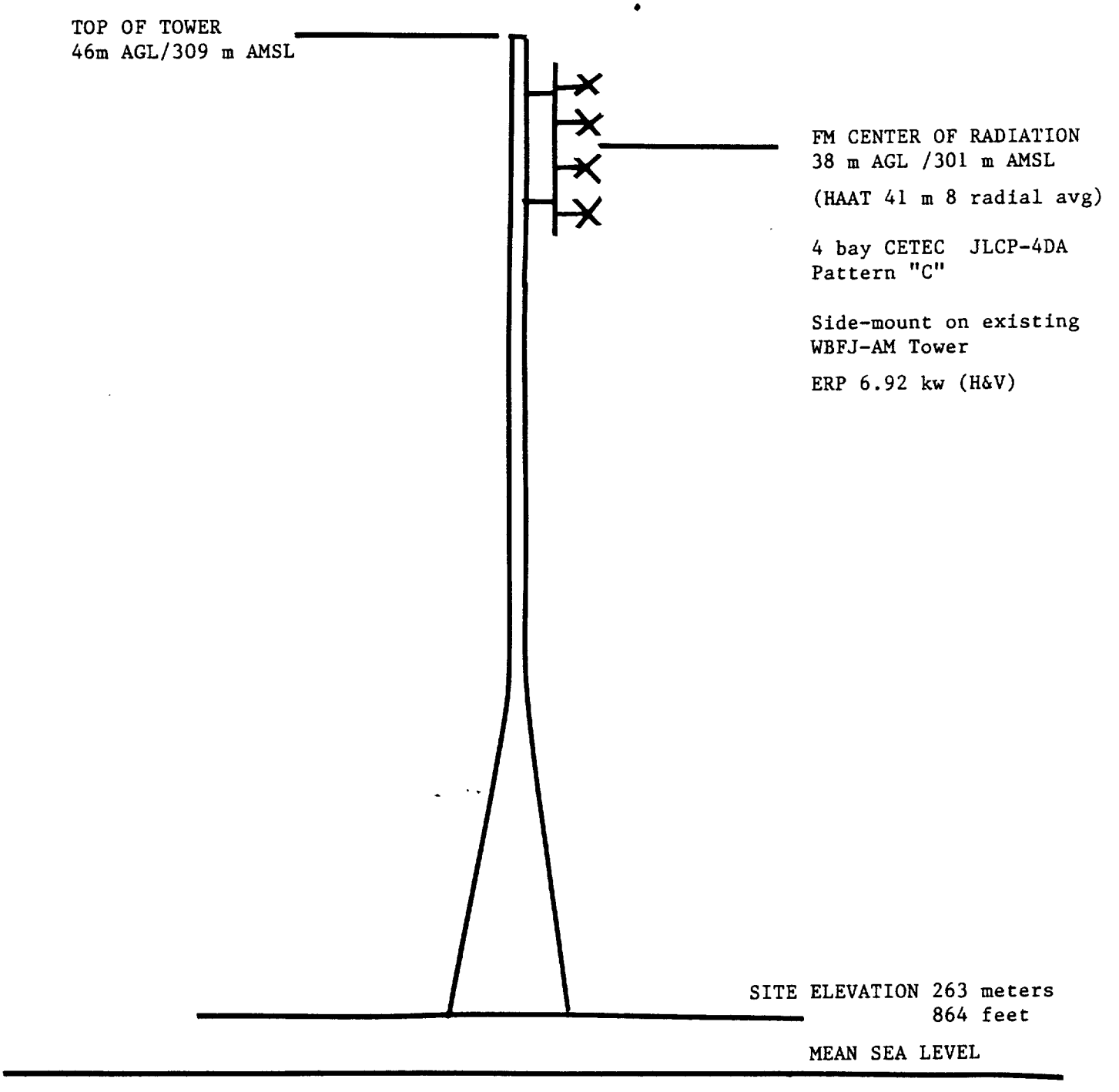


EXHIBIT C

TRIAD FAMILY NETWORK, INCORPORATED

DISCUSSION OF PROPOSED DIRECTIONAL ANTENNA SYSTEM

The following is a statement relative to 47CFR 73.316(b) of the Rules and Regulations regarding directional antenna systems.

It is desired to employ a Cetec JLCP-4DA, stock pattern "C". This is a stock directional antenna for this manufacturer, which obtains its directivity by the mounting of suitable reradiators on the antenna assembly to obtain the desired directivity. Prior to installation, the antenna is tested on a suitable test range and these data provided to assure that the proposed pattern envelope is not exceeded. This antenna is well known to the Commission and should be in its database of "stock" directional antennas.

The next two pages are the data required in 47CFR 73.316(c)(2), which include tabulated data for the relative field at least every 10 degrees, and a polar plot with 0° of the polar plot corresponding to 0° of the tabulated data. 47CFR73.316(c)(2) would seem to state that the pattern maxima around the axis of symmetry must be placed at the 0° reference, which we have done in both the tabulated data and the polar plot. However, the 0° reference will be at a bearing of 180° T as proposed in the allocation study. In the allocation study, the dBkW values for this antenna rotated to the 180° bearing were used as this represents the actual directional antenna pattern desired.

Vertical patterns are not available at this time, but as this is a standard directional antenna, should be in the Commission's files as not having any undesirable lobes. After final fabrication, the antenna will be tested at conical elevations of ±10° to demonstrate the absence of undesirable lobes.

The antenna will be mounted on the side of the WBFJ tower in accordance with the manufacturer's recommendations. If possible and feasible, sections of the